

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Eco Window Systems, LLC 9114 NW 106 Street Medley, FL 33178

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "400" Aluminum Window Wall System w/Window Inserts – S.M.I.

APPROVAL DOCUMENT: Drawing No. W12-09, titled "Series 400 Alum. Window Wall System (S.M.I.)", sheets 1 through 9 of 9, dated 03/02/12, with revision C dated 12/01/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-0801.03 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

12/04/15

MIAMI-DADE COUNTY APPROVED

NOA No. 15-0603.14 Expiration Date: December 20, 2017 Approval Date: December 10, 2015

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under previous NOA No. 12-0801.03)
- 2. Drawing No. W12-09, titled "Series 400 Alum. Window Wall System (S.M.I.)", sheets 1 through 9 of 9, dated 03/02/12, with revision C dated 12/01/15, prepared by Al-Faroog Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Report No.

HETI-10-3064R, dated 01/18/11, signed and sealed by Candido F. Font, P.E. (Submitted under previous NOA No. 12-0801.03)

- 2. Test reports on: 1) Small Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.'s HETI-10-3065, HETI-10-3067, HETI-10-3069, and HETI-10-3070, all dated 10/18/10, all signed and sealed by Candido F. Font, P.E. (Submitted under previous NOA No. 12-0801.03)
- 3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.

HETI-10-3064, **HETI-10-3066** and **HETI-10-3068**, all dated 10/18/10, all signed and sealed by Candido F. Font, P.E.

(Submitted under previous NOA No. 12-0801.03)

4. Test reports on: 1) Safety Performance (Drop Load) Test, (class A, Sec. 5)

per ANSI Z97.1-1984 and CPSC 16 CFR, CH II, Part 1201

along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Report No.

HETI-10-3096, dated 10/18/10, signed and sealed by Candido F. Font, P.E.

(Submitted under previous NOA No. 12-0801.03)

Manuel Perez P. E. Product Control Examiner NOA No. 15-0603.14

Expiration Date: December 20, 2017 Approval Date: December 10, 2015

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014), submitted dated 06/02/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Glazing complies with ASTM E 1300-09

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 14-0916.10 issued to Kuraray America, Inc. for their "Butacite® PVB Glass Interlayer" dated 04/25/15, expiring on 12/11/16.

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-5th Edition (2014), and of no financial interest, dated June 1, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Laboratory compliance letters for Test Reports No.: HETI-10-3065, HETI-10-3067, HETI-10-3069, HETI-10-3070, HETI-10-3064, HETI-10-3066, HETI-10-3068 and HETI-10-3064R, all issued by Hurricane Engineering & Testing, Inc., all dated 10/18/10 and 01/18/11, all signed and sealed by Candido F. Font, P.E. (Submitted under previous NOA No. 12-0801.03)
- 3. Proposal No. 10-0233R issued by Product Control Section, dated 07/12/10, signed by Manuel Perez, P.E. (Submitted under previous NOA No. 12-0801.03)

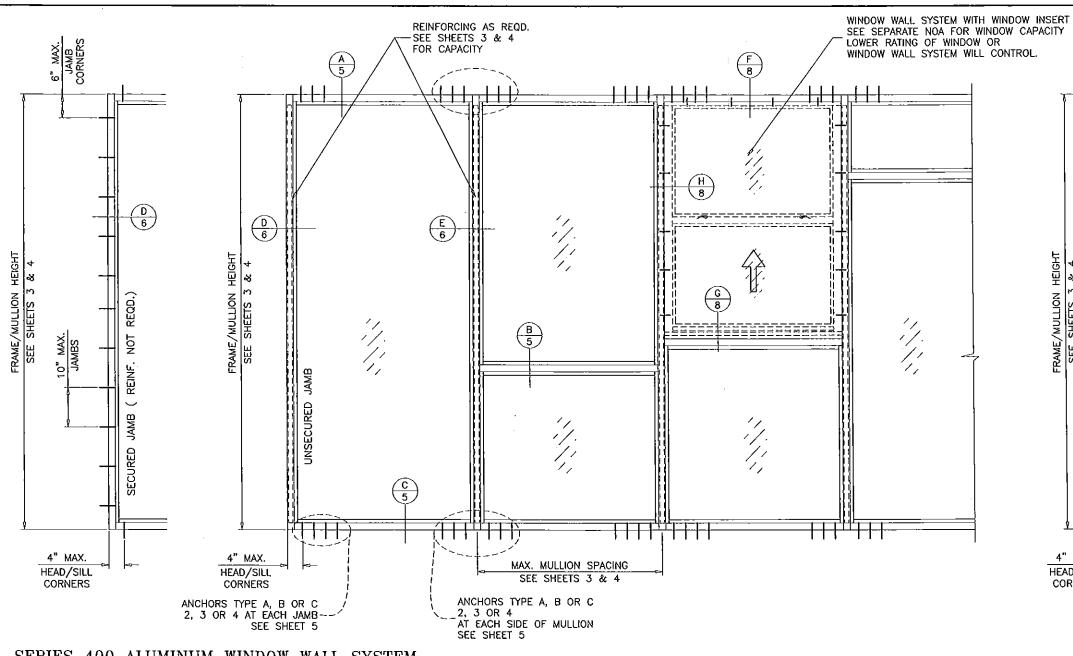
G. OTHERS

1. Notice of Acceptance No. 12-0801.03, issued to Eco Window Systems, LLC for their Series "400" Aluminum Window Wall System With Window Inserts – S.M.I., approved on 12/20/12 and expiring on 12/20/17.

Manuel Perez, P. E. Product Control Examiner

NOA No. 15-0603.14

Expiration Date: December 20, 2017 Approval Date: December 10, 2015



$\bigcirc D$ 4" MAX. HEAD/SILL CORNERS ANCHORS TYPE A, B OR C 2, 3 OR 4 AT EACH JAMB~ SEE SHEET 5

SERIES 400 ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.

MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE,

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

CHECK GLASS CAPACITY TABLE ON SHEET 2 FOR GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) STEP 2 AND PRESSURE CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

CHECK WINDOW WALL!SYSTEM CAPACITY FOR DESIRED HEIGHT AND MULLION SPACING USING CHARTS ON SHEETS 3 & 4. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

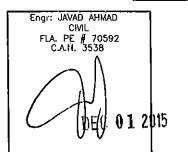
USING CHARTS ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

VERIFY UNANCHORED JAMBS, IF USED AS PER SHEETS 3, 4 AND 7.

THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED as complying with the Florida Expiration Date 13

SMALL MISSILE IMPACT



네임 < lel 이 1/2"=1 HAMID <u>~</u> scale:

drawing W12-09

sheet 1 of 9

CORPORATION
DDUCT DEVELOPMENT
VE, SUITE 220
3173

(S.M.I.)

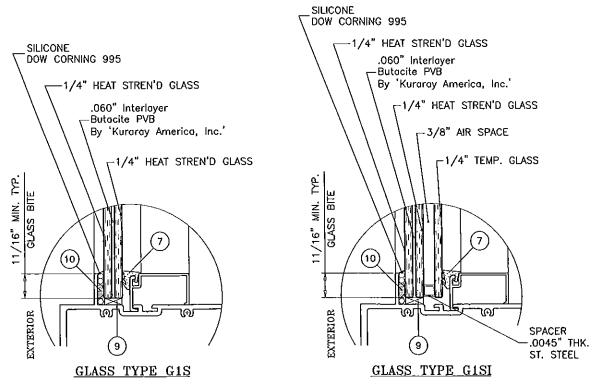
SYSTEM

400 ALUM WINDOW WALL S WINDOW SYSTEN N.W. 106 STREET EY, FL. 33178

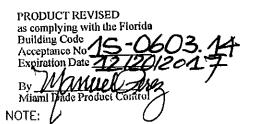
ECO WIN 9114 N.W. MEDLEY, FL TEL. (305) 88

		_				
GLAS	SS LOAD CAP	ACITY - PSF				
NOMINA	L DIMS.	GLASS TYPES 'G1S' & 'G1SI'				
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)			
26-1/2"		90.0	130.0			
32-1/2"]	90.0	130.0			
38-1/2"	70 7/18	90.0	130.0			
44-1/2"	78-3/4"	90.0	130.0			
50~1/2"		90.0	130.0			
56-1/2"		90.0	130.0			
26-1/2"		90.0	130.0			
32-1/2"	ļ	90.0	130.0			
38-1/2"	01 7/17	90.0	130.0			
44-1/2"	84-3/4"	90.0	130.0			
50-1/2"		90.0	130.0			
56-1/2"		90.0	130.0			
26-1/2"		90.0	130.0			
32-1/2"		90.0	130.0			
38-1/2"	90~3/4"	90.0	130.0			
44-1/2"	90~3/4	90.0	130.0			
50"		90.0	130.0			
50-1/2"		90.0	130.0			
56-1/2"		90.0	130.0			
26-1/2"		90.0	130.0			
32-1/2"		90.0	130.0			
38-1/2"	96-3/4"	90.0	130.0			
44-1/2"	30-37 +	90.0	130.0	Ĺ		
47 "		90.0	130.0	á		
50-1/2"		90.0	130.0	-		
26~1/2"		90.0	130.0			
32-1/2"		90.0	130.0	OF CITY		
38-1/2"	102-3/4"	90.0	130.0	ì		
44"	102 0, 1	90.0	130.0			
44-1/2"		90.0	130.0	0		
49"		90.0	130.0	4		
26-1/2"		90.0	130.0	F (1/2)		
32-1/2"		90.0	130.0	3		
38-1/2"	108-3/4"	90.0	130.0	į		
41"		90.0	130.0			
44-1/2"		90.0	130.0	֓֞֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֝֓֓֓֓֓֡֝֡֓֓֓֡֡֝		
47"	<u> </u>	90.0	130.0			
26-1/2"		90.0	130.0			
32-1/2"		90.0	130.0	֓֞֜֞֜֓֓֓֓֓֓֓֓֜֜֜֜֓֓֓֓֓֡֜֜֜֡֓֓֡֓֡֡֡֜֜֜֡֡֡֡֓֜֡֡֡֡֡֡		
38-1/2"	114-3/4"	90.0	130.0	TACIFY IOCOUTIV		
39"		90.0	130.0	ן וְ		
44-1/2"		90.0	130.0	2		

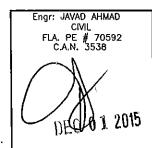
ŕ	D.L.O. WIDTH	D.L.O. WIDTH	
D.Lo. HEIGHT		D.L.O. HEIGHT	
D.L.O	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D.L.O. HEIGHT	



GLAZING OPTIONS

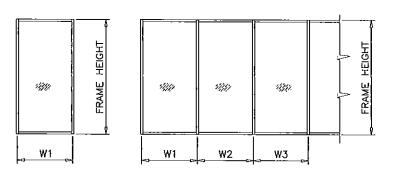


NOTE: C GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).



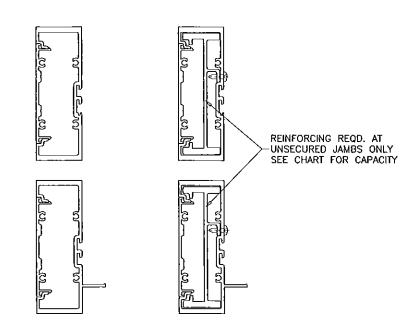
SERIES 400 ALUM WINDOW WALL SYSTEM (S.M.I.) AL-FAROOQ CORPORATION Engineers & Product Development ECO WINDOW SYSTEMS, LLC. B 04.20.15 REV. PER RER COMMENTS B 04.20.15 REV. PER RER COMMENTS MIAMI, FLORIDA 33.173 TEL. (305) 264-8100 FAX. (305) 262-6978 STORE\W12-C
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C 12.01.15 REV. PER RER COMMEN
2-12 1'-0"
date: 03-02-12 scale: 1/2"=1'-0" dr. by: HAMID chk. by:
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	AMB & MUL ABS & MULLION	s withou	T INTERN	EDIATE H		rs	, troi
NOMIN	AL DIMS.	MULI	JAMB 'J1' MULL 'M1'		'MS'	JAMB 'J2' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(~)	EXT.(+)	INT.(-)
30"		90.0	130.0	90.0	130.0	90.0	130.0
36"		90.0	130.0	90.0	130.0	90.0	130.0
42"	84"	90.0	130.0	90.0	130.0	90.0	130.0
48"	"	90.0	130.0	90.0	130.0	90.0	130.0
54"		90.0	120.6	90.0	130.0	90.0	130.0
60"		90.0	112.8	90.0	130.0	90.0	130.0
30"		90.0	130.0	90.0	130.0	90.0	130.0
36"		90.0	130.0	90.0	130.0	90.0	130.0
42"	90"	90.0	124.4	90.0	130.0	90.0	130.0
48"	30	90,0	111.5	90.0	130.0	90.0	130,0
54"		90.0	101.9	90.0	130.0	90.0	130.0
60"		90.0	94.8	90.0	130.0	90.0	130.0
30"		90.0	130.0	90.0	130.0	90.0	130.0
36"		90.0	123.1	90.0	130.0	90.0	130.0
42"	oc"	90.0	107.3	90.0	130.0	90.0	130.0
48"	96"	90.0	95.9	90.0	130.0	90.0	130.0
54"		87.3	87.3	90.0	129.7	90.0	130.0
60"		80.9	80.9	90.0	120.1	90.0	130.0
30"		90.0	122.2	90.0	130.0	90.0	130.0
36"		90.0	103.4	90.0	130.0	90.0	130.0
42"		90.0	90.3	90.0	130.0	90.0	130.0
48"	102"	80.8	80.8	90.0	123.4	90.0	130.0
54"		73.6	73.6	90.0	112.0	90.0	130.0
56"		71.7	71.7	90.0	108.9	90.0	130.0
30"		90.0	102.5	90.0	130.0	90.0	130.0
36"	1	86.6	86.6	90.0	130.0	90.0	130.0
42"	108"	75.5	75.5	90.0	121.3	90.0	130.0
48"		67.4	67.4	90.0	107.8	90.0	130.0
53"		62.1	62.1	90.0	99.2	90.0	122.4
30"		86.9	86.9	90.0	130.0	90.0	130.0
36"		73.3	73.3	90.0	123.0	90.0	130.0
42°	114"	63.8	63.8	90.0	107.0	90.0	130.0
48"	ļ	56.8	56.8	90.0	95.0	90.0	117.2
50 "	{	54.9	54.9	90.0	91.6	90.0	113.1
30"	1	74.3	74.3	90.0	124.7	90.0	130.0
36"		62.6	62.6	90.0	105.0	90.0	129.7
42"	120"	54.4	54.4	90.0	91.2	90.0	112.6
48"		48.3	48.3	81.1	81.1	90.0	100.1



WIDTH (W) = W1AT FRAME JAMB

W2 + W3WIDTH(W) =AT FRAME MULLION

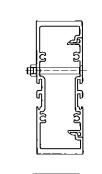


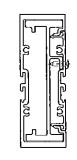
UNSECURED JAMB 'J1'

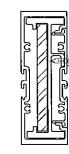
Ix IN^4 Sx IN^3 4.731 2.5580

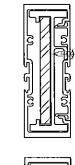
UNSECURED JAMB 'J2'

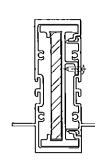
Ix IN^4 Sx IN^3 10.5919 4.1062











MULLION 'M1' MULLION 'M2' Ix IN^4 Sx IN^3 6.7306 2.6093 Ix IN^4 Sx IN^3 10.8376 4.2014 MULLION 'M3'

 Ix
 IN^4
 Sx
 IN^3

 10.8376
 4.2014

 2.000
 1.0000
 STEEL TOTAL 16.6376

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12/20/2

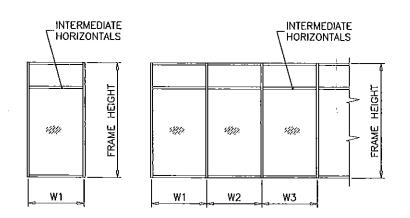
Engr: JAVAD AHMAD CIVIL FLA. PE # 70592 C.A.N. 3538

	revisions:	date	12.11.12	04.20.15	12.01.15		
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX. (305) 262-6978

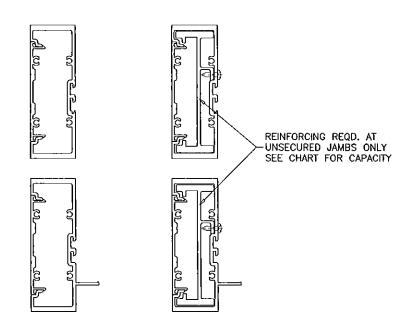
SERIES 400 ALUM WINDOW WALL SYSTEM (S ECO WINDOW SYSTEMS, LL 9114 N.W. 106 STREET MEDLEY, FL. 33178 TEL. (305) 885-5299 FAX (305) 885-59

NOMINA	AL DIMS.	JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.()	EXT.(+)	INT.(-
30"		90.0	130.0	90.0	130.0	90.0	130.0
36"		90.0	130.0	90.0	130.0	90.0	130.0
42"	84"	90.0	130.0	90.0	130.0	90.0	130.0
48"	"	90.0	117.2	90.0	130.0	90.0	130.0
54 "		90.0	104.2	90.0	130.0	90.0	130.0
60"		90.0	93.8	90.0	130.0	90.0	130.0
30"	_	90.0	130.0	90.0	130.0	90.0	130.0
36"		90.0	130.0	90.0	130.0	90.0	130.0
42"	90"	90.0	115.6	90.0	130.0	90.0	130.0
48"	30	90.0	101.1	90.0	130.0	90.0	130.0
54"		89.9	89.9	90.0	130.0	90.0	130.0
60"		80.9	80.9	90.0	120.6	90.0	130.0
30"		90.0	130.0	90.0	130.0	90.0	130.0
36"		90.0	117.5	90.0	130.0	90.0	130.0
42"	96"	90.0	100.7	90.0	130.0	90.0	130.0
48 "	30	90.0	88.1	90.0	130.0	90.0	130.0
54"		78.3	78.3	90.0	116.3	90.0	130.0
60"		70,5	70.5	90.0	104.7	90.0	129.2
30°		90.0	118.3	90.0	130.0	90.0	130.0
36"		90.0	98.6	90.0	130.0	90.0	130.0
42"	102"	84.5	84.5	90.0	130.0	90.0	130.0
48"	102	73.9	73.9	90.0	115.9	90.0	130.0
54"		65.7	65.7	90.0	103.0	90.0	127.2
56"		63.4	63.4	90.0	99.4	90.0	122.6
30"	}	90.0	99.6	90.0	130.0	90.0	130.0
36"	}	83.0	83.0	90.0	130.0	90.0	130.0
42°	108"	71.2	71.2	90.0	118.2	90.0	130.0
48"		62.3	62.3	90.0	103.4	90.0	127.6
53 °		56.4	56.4	90.0	93.6	90.0	115.6
30"		84.7	84.7	90.0	130.0	90.0	130.0
36"		70.6	70.6	90.0	118.4	90.0	130.0
42"	114"	60.5	60.5	90.0	101.5	90.0	125.3
48"		52.9	52.9	88.8	88.8	90.0	109.6
50"		50.8	50.8	85.3	85.3	90.0	105.3
30"		72.6	72.6	90.0	121.8	90.0	130.0
36"	120"	60.5	60.5	90.0	101.5	90.0	125.3
42 ²	120"	51.9	51.9	87.0	87.0	90.0	107.4
48"		45.4	45.4	76.2	76.2	90.0	94.0



WIDTH (W) = W1AT FRAME JAMB

W2 + W3WIDTH (W) =AT FRAME MULLION

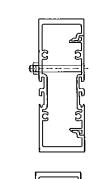


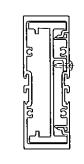
UNSECURED JAMB 'J1'

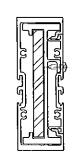
Ix IN^4 Sx IN^3 4.731 2.5580

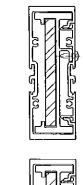
UNSECURED JAMB 'J2'

Ix IN^4 Sx IN^3 10.5919 4.1062









MULLION 'M1'

Ix IN^4 Sx IN^3 6.7306 2.6093

MULLION ,WS, Ix IN^4 Sx IN^3 10.8376 4.2014

MULLION 'M3'

	Ix 1N^4	Sx IN^3
ALUMINUM	10.8376	4.2014
STEEL	2.000	1.0000
TOTAL X ALUM + IX STL X 2.9	16.6376	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No
Expiration Date

Engr: JAVAD AHMAD CIVIL FLA. PE # 70592 C.A.N. 3538

	description	NO CHANGE THIS SHEET	UPDATED TO 2014 FBC	NO CHANGE THIS SHEET		
	6				L	
revisions:	date	A 12.11.12	B 04.20.15	C 12.01.15		
<u>(j</u>	2	∢	В	Ų	L.	
date: 03_02_12	20.20	scale: 1/2"=1"-0"		dr. by: HAMID		She by:
\subseteq		wi	ng		no	٥.
٧	٧ '	12	2-	-(09	9
si	he	et	4	0	f	<u>c</u>

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 2648100 FAX. (305) 262-6978

885-5902

SERIES 400 ALUM WINDOW WALL SYSTEM (\$

ECO WINDOW SYSTEMS, LL
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-559

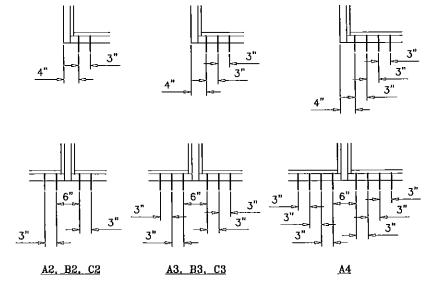
	ANC		AD CAP. .(+) & IN		PSF		
	AL DIMS.	ANCH	ORS TYP	E 'A'	ANCHORS TYPE 'B' & 'C'		
<u></u>	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3	B4/C4
30"		130.0	130.0	130.0	130.0	130.0	130.0
36"		119.6	130,0	130.0	130.0	130.0	130.0
42"		102.5	130.0	130.0	130.0	130.0	130.0
48"	72"	89.7	130.0	130.0	114.7	130.0	130.0
53"	, , ,	81.2	121.8	130.0	103.8	130.0	130.0
54"		79.7	119.6	130.0	101.9	130.0	130.0
56 "		76.9	115.3	130.0	98.3	130.0	130.0
60"		71.7	107.6	130.0	91.7	130.0	130.0
30"		130.0	130.0	130.0	130.0	130.0	130.0
36"		110.4	130.0	130.0	130.0	130.0	130.0
42"		94.6	130.0	130.0	121.0	130.0	130.0
48 "	78 "	82.8	124.2	130.0	105.8	130.0	130.0
53"	/*	75.0	112.4	130.0	95.9	130.0	130.0
54"		73.6	110.4	130.0	94.1	130.0	130.0
56"	(70.9	106.4	130.0	90.7	130.0	130.0
60"	<u> </u>	66.2	99.3	130.0	84.7	127.0	130.0
30"		123.0	130.0	130.0	130.0	130.0	130.0
36"		102.5	130.0	130.0	130.0	130.0	130.0
42"		87.8	130.0	130.0	112.3	130.0	130.0
48"	0.45	76.9	115.3	130.0	98.3	130.0	130.0
53"	84°	69.6	104.4	130.0	89.0	130.0	130.0
54"	l l	68.3	102.5	130.0	87.4	130.0	130.0
56"	ŀ	65.9	98.8	130.0	84.2	126.4	130.0
60"	}	61.5	92.2	123.0	78.6	117,9	130.0
30"		114,8	130.0	130.0	130.0	130.0	130,0
36"		95.6	130.0	130.0	122.3	130.0	130.0
42"		82.0	123.0	130.0	104.8	130.0	130.0
48"	_	71.7	107.6	130.0	91.7	130.0	130.0
53"	90"	65.0	97.4	129.9	83.1	124.6	130.0
54"		63.8	95.6	127.5	81.5	122.3	130,0
56"	Ì	61.5	92.2	123.0	78.6	117.9	130.0
60"		57.4	86.1	114.8	73.4	110.1	130.0
30"		107.6	130.0	130.0	130.0	130.0	130.0
36"		89.7	130.0	130.0	114.7	130.0	130.0
42"		76.9	115,3	130.0	98.3	130.0	130.0
48 "		67.3	100.9	130.0	86.0	129.0	130.0
53 "	96"	60.9	91.4	121.8	77.9	116.8	130.0
54"		59.8	89.7	119.6	76.4	114.7	130.0
56"		57.6	86.5	115.3	73.7	110.6	130.0
60"		53.8	80.7	107.6	68.8	103.2	130.0
30"		101.3	130.0	130.0	129.5	130.0	130.0
36"		84,4	126.6	130.0	107.9	130.0	130.0
36 42"		72.3		 	 	1	
42 48"	102"		108.5	130.0	92.5	130.0	130.0
48 53"	102	63.3	94.9	126.6	80.9	121.4	130.0
		57.3	86.0	114.6	73.3	110.0	130.0
54"		56.3	84.4	112.5	71.9	107.9	130.0
56"		54.3	81.4	108.5	69.4	104.1	130.0
30"		95.6	130.0	130.0	122.3	130.0	130.0
36"		79.7	119.6	130.0	101.9	130.0	130.0
42"	108"	68.3	102.5	130.0	87.4	130.0	130.0
48"		59.8	89.7	119.6	76.4	114.7	130.0
53"		54.1	81.2	108.3	69.2	103.8	130.0

	ANC		OAD CAP .(+) & IN		- PSF		
NOMIN	AL DIMS.	ANCI	IORS TYP	E 'A'	ANCHOR	S TYPE '	B' & 'C'
WIDTH (W)	FRAME HEIGHT	L A2	A3	A4	B2/C2	B3/C3	B4/C4
30"	1	90.6	130.0	130.0	115.9	130.0	130.0
36"	114"	75.5	113.3	130.0	96.6	130.0	130.0
42"	114	64.7	97.1	129.4	82.8	124.2	130.0
48"		56.6	84.9	113.3	72.4	108.6	130.0
30"		86.1	129.1	130.0	110.1	130.0	130.0
36"	120"	71.7	107.6	130.0	91.7	130.0	130.0
42"	120	61.5	92.2	123.0	78.6	117.9	130.0
48"		53.8	80.7	107.6	68.8	103.2	130.0

		HORIZON OPTIONA FIXED LI	ITALS L	ı
FRAME HEIGHT	***************************************		1777	FRAME HEIGHT
W1	W1	W2	W3	

WIDTH (W) = W1 AT FRAME JAMB

WIDTH (W) = $\frac{\text{W2 + W3}}{2}$ AT FRAME MULLION

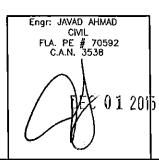


PRODUCT REVISED as complying with the Florida Building Code 15-0603. 14 Expiration Date 12/20/2017

NOTE/
USE SEAR CLIP UW-403 AT
ANCHOR LOCATIONS OF SUFFICIENT LENGTH
TO COVER ALL ANCHOR SPACINGS

ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION A4 = (4) ANCHORS TYPE 'A' AT EAGH SIDE OF JAMB AND MULLION



SERIES 400 ALUM WINDOW WALL SYSTEM (S.M.I.) AL-FAROOQ CORPORATION	ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220	MIAMI, FLUKIDA 551.73 TEL (305) 264-8100 FAX. (305) 262-6978	STORE\W12-
SERIES 400 ALUM WINDOW WALL SYSTEM (S.M.I.)	ECO WINDOW SYSTEMS, LLC.	9114 N.W. 106 SIREE! MEDLEY, FL. 33178	TEL. (305) 885-5299 FAX (305) 885-5902
revisions:	A 12.11.12 NO CHANGE THIS SHEET B 04.20.15. IPDATED TO 2014 FBC	C 12.01.15 NO CHANGE THIS SHEET	
date: 03-02-12	scale: 1/2"=1'-0"	dr. by: HAMID	

